

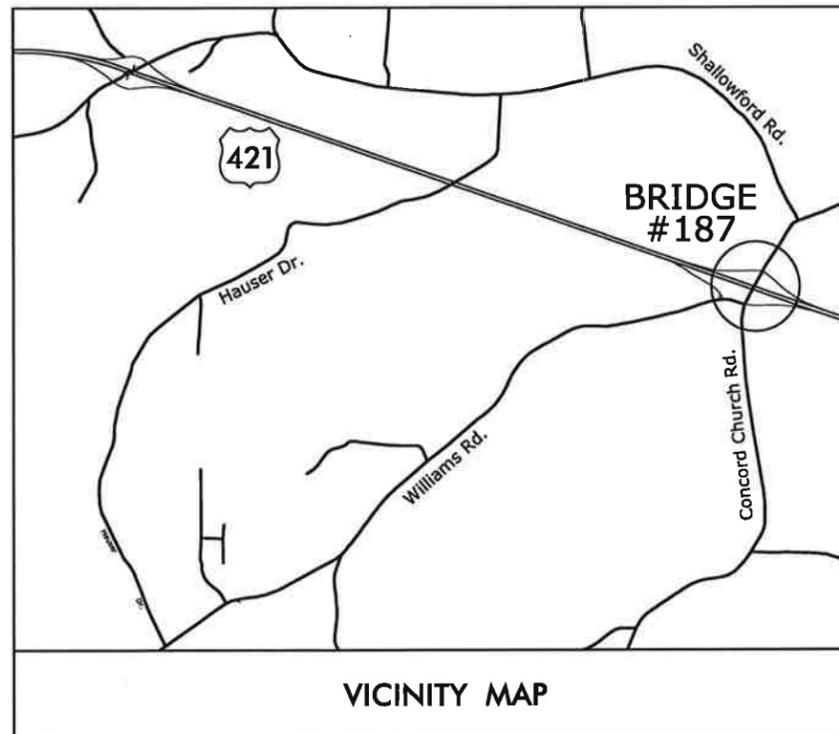
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**FORSYTH COUNTY**  
DIVISION 9



**BRIDGE #187 - SR 1173 (WILLIAMS ROAD) OVER US 421**



VICINITY MAP

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PLAN PREPARED FOR NCDOT HIGHWAY DIVISION 9

MATTHEW W. JONES P.E.  
DIVISION BRIDGE PROGRAM MANAGER



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BETSY L. WATSON, P.E.  
TRAFFIC ENGINEER

GEORGE KARAGEORGE  
WORK ZONE TRANSPORTATION DESIGN MANAGER

APPROVED: *Betsy L. Watson*  
DATE: 10/17/14



**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-2, 2A	GENERAL NOTES
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4	PHASE I US 421 NORTHBOUND TRAFFIC SHIFT
TMP-5	PHASE I DETOUR ROUTE SR 1173 (WILLIAMS ROAD)
TMP-6	WILLIAMS ROAD TEMPORARY SIGN DESIGN

SHEET NO.  
TMP-1

**WBS 41665.5B**

# ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.06	WARNING SIGNS FOR BLASTING ZONES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - (PERMANENT AND TEMPORARY)
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

## LEGEND

- EXIST. PVMT.
- PROPOSED PVMT.
- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- WORK AREA
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT
- TYPE III BARRICADE
- CONE
- DRUM
- SKINNY DRUM
- TUBULAR MARKER
- CHANGEABLE MESSAGE SIGN (CMS)
- FLAGGER
- AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)
- FLASHING ARROW BOARD (TYPE C)
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- WORK ZONE SIGN-PORTABLE
- WORK ZONE SIGN-STATIONARY
- WORK ZONE SIGN-STATIONARY OR PORTABLE
- TEMPORARY SHORING (XX)
- TEMPORARY CRASH CUSHION
- PORTABLE CONCRETE BARRIER (PCB)



### SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

### PAVEMENT MARKINGS

- DOUBLE YELLOW CENTER LINE
- SKIP LINES
- MINI-SKIP LINES
- SOLID LINES
- EXISTING PAVEMENT MARKING (GRAY)

### PAVEMENT MARKERS

- CRYSTAL / CRYSTAL
- CRYSTAL / RED
- YELLOW / YELLOW

### PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS
- EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
- ONLY PAVEMENT MARKING ALPHANUMERIC CHARACTERS

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	SEAL 		

# GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
41665.5B	TMP-2

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

**TIME RESTRICTIONS**

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 421S	6:00 A.M.-9:00 A.M. MONDAY THRU FRIDAY
US 421N	4:00 P.M.-7:00 P.M. MONDAY THRU FRIDAY

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME  
US 421

HOLIDAY

- 1) FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- 3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- 6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- 9) FOR APPALACHIAN STATE UNIVERSITY GRADUATION, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY, MAY 8, 2015, TO 7:00 P.M. SUNDAY, MAY 10, 2015.

C) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 421	6:00 A.M. TO 9:00 P.M. EVERY DAY

D) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME - US 421	DAY AND TIME RESTRICTIONS - 6:00 A.M.-9:00 P.M. EVERY DAY
DURATIONS AND OPERATION - MAX. 30 MIN. FOR OVERHEADHD OPERATIONS	

E) DO NOT CONDUCT SINGLE VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM RAMPS WILL NOT BE ALLOWED:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 421	6:00 A.M.-9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M.-7:00 P.M. MONDAY THRU FRIDAY

F) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS; INGRESS AND EGRESS FROM RAMPS WILL NOT BE ALLOWED:

ROAD NAME	DAY AND TIME RESTRICTIONS
US 421	6:00 A.M.-9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M.-7:00 P.M. MONDAY THRU FRIDAY

G) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

**LANE AND SHOULDER CLOSURE REQUIREMENTS**

H) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.

I) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

J) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

K) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

L) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

**TRAFFIC PATTERN ALTERATIONS**

M) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

**SIGNING**

N) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

O) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRANSPORTATION MANAGEMENT PLANS.

AND

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRANSPORTATION MANAGEMENT PLANS.

P) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

AND

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

Q) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

**TRAFFIC BARRIER**

R) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE/RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

S) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

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## GENERAL NOTES

### TRAFFIC CONTROL DEVICES

- T) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH), EXCEPT 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- U) PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- V) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS, CONES OR SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON (500 FT) CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

### PAVEMENT MARKINGS AND MARKERS

- W) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS AS FOLLOWS:

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
US 421	PAINT	TEMPORARY RAISED

- X) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- Y) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- Z) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

### MISCELLANEOUS

- AA) USE LAW ENFORCEMENT TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND OR INTERSECTIONS AS SHOWN IN PLANS OR DIRECTED BY THE ENGINEER.

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	<p style="font-size: x-small;">           12/17/14         </p>		

PROJ. REFERENCE NO.	SHEET NO.
41665.5B	TMP-3

NOTE:  
THROUGHOUT THE PHASING REFER TO THE FOLLOWING ROADWAY STANDARD DRAWINGS WHEN TEMPORARY LANE CLOSURES ARE REQUIRED:

US 421 1101.01, SHEET 4 OF 15  
WILLIAMS RD. 1101.01, SHEET 1 OF 15

**PHASE I**

PRIOR TO ANY WORK OPERATIONS, INSTALL WORK ZONE ADVANCE WARNING SIGNS FOR BOTH DIRECTIONS OF US 421 PER STD. 1101.01, SHEET 1 OF 3 AND ON WILLIAMS RD. PER STD. 1101.01, SHEET 3 OF 3.

**STEP 1:**

BEGIN SUBSTRUCTURE OR ANY OTHER REQUIRED WORK PRIOR TO CLOSING WILLIAMS RD. USE TEMPORARY LANE CLOSURES AS NEEDED.

**STEP 2: (TMP-4)**

PREPARE MEDIAN AREA FOR MOBILIZATION OF BRIDGE CRANE AS FOLLOWS IN STEPS 2A-2C:

**2A:**

USING TEMPORARY LANE CLOSURES AND IN A CONTINUOUS OPERATION, REMOVE EXISTING PAVEMENT MARKING SKIP LINES AND WHITE EDGE LINE ALONG US 421 NB AND PLACE TEMPORARY PAINT MARKINGS SHIFTING TRAFFIC ONTO THE OUTSIDE SHOULDER. (TMP-4)

**2B:**

USING A TEMPORARY LANE CLOSURE INSTALL PORTABLE CONCRETE BARRIER (PCB) AND CRASH CUSHION ADJACENT TO THE US 421 NB INSIDE LANE. (TMP-4)

**2C:**

BEHIND PCB REMOVE EXISTING GUARDRAIL. ONCE GUARDRAIL IS REMOVED USE A TEMPORARY LANE CLOSURE DURING CRANE DELIVERY AND PLACE CRANE IN MEDIAN. (TMP-4)

**STEP 3: (TMP-5)**

CLOSE WILLIAMS RD. AS FOLLOWS IN STEPS 3A-3B:

**3A:**

INSTALL DETOUR AND ROAD CLOSURE SIGNS AND COVER. INSTALL CHANGEABLE MESSAGE SIGNS(CMS). CMS'S MAY BE INSTALLED IN ADVANCE OF CLOSURE AND PROGRAMMED WITH MESSAGES FOR ADVANCE PUBLIC WARNING/INFO OF THE UPCOMING WORK. ALL MESSAGES TO BE APPROVED BY THE ENGINEER. (TMP-5)

**3B:**

IN A CONTINUOUS OPERATION, UNCOVER DETOUR AND ROAD CLOSURE SIGNS, INSTALL TYPE III BARRICADES AND CLOSE WILLIAMS RD. (TMP-5)

**STEP 4:**

WITH WILLIAMS RD. CLOSED TO TRAFFIC, PERFORM ALL BRIDGE AND ROAD CONSTRUCTION OPERATIONS AND REPLACE EXISTING PAVEMENT MARKINGS.

DURING REMOVAL AND ERECTION OF BRIDGE GIRDERS, OR DURING ANY OTHER OVERHEAD WORK, USE TEMPORARY ROAD CLOSURES ON US 421 STD. 1101.03 SHEET 7 OF 9 TRAFFIC DETOURED VIA INTERCHANGE RAMPS. USE LAW ENFORCEMENT TO ENFORCE THE ROAD CLOSURE AND AT THE RAMP TERMINALS TO KEEP TRAFFIC FLOWING. DO NOT ALLOW TRAFFIC TO BACK UP ONTO US 421.

**PHASE II**

**STEP 1:**

UPON COMPLETION OF WILLIAMS RD. WORK, AND IN A CONTINUOUS OPERATION REMOVE TYPE III BARRICADES, CMS'S, ROAD CLOSURE AND DETOUR SIGNS, AND RE-OPEN WILLIAMS RD.

**STEP 2:**

USING A TEMPORARY LANE CLOSURE, REMOVE CRANE FROM MEDIAN.

ONCE CRANE IS REMOVED AND BEHIND THE PREVIOUSLY PLACED PCB RESTORE MEDIAN AS DIRECTED BY THE ENGINEER AND REINSTALL/REPLACE THE SECTIONS OF GUARDRAIL THAT WERE PREVIOUSLY REMOVED.

**STEP 3:**

USING A TEMPORARY LANE CLOSURE ON US 421 NB, REMOVE TEMPORARY BARRIER AND CRASH CUSHION AND REPLACE WITH DRUMS.

**STEP 4:**

USING TEMPORARY LANE CLOSURES ON US 421 NB AND IN A CONTINUOUS OPERATION REMOVE TEMPORARY MARKINGS AND INSTALL FINAL MARKINGS IN THEIR ORIGINAL LOCATION.

**STEP 5:**

REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES.

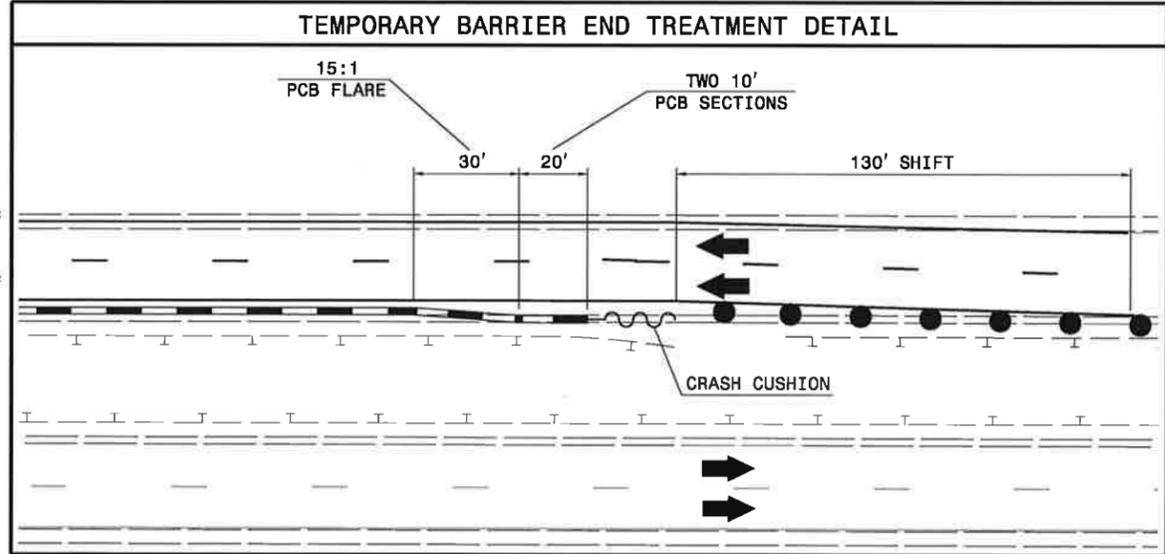
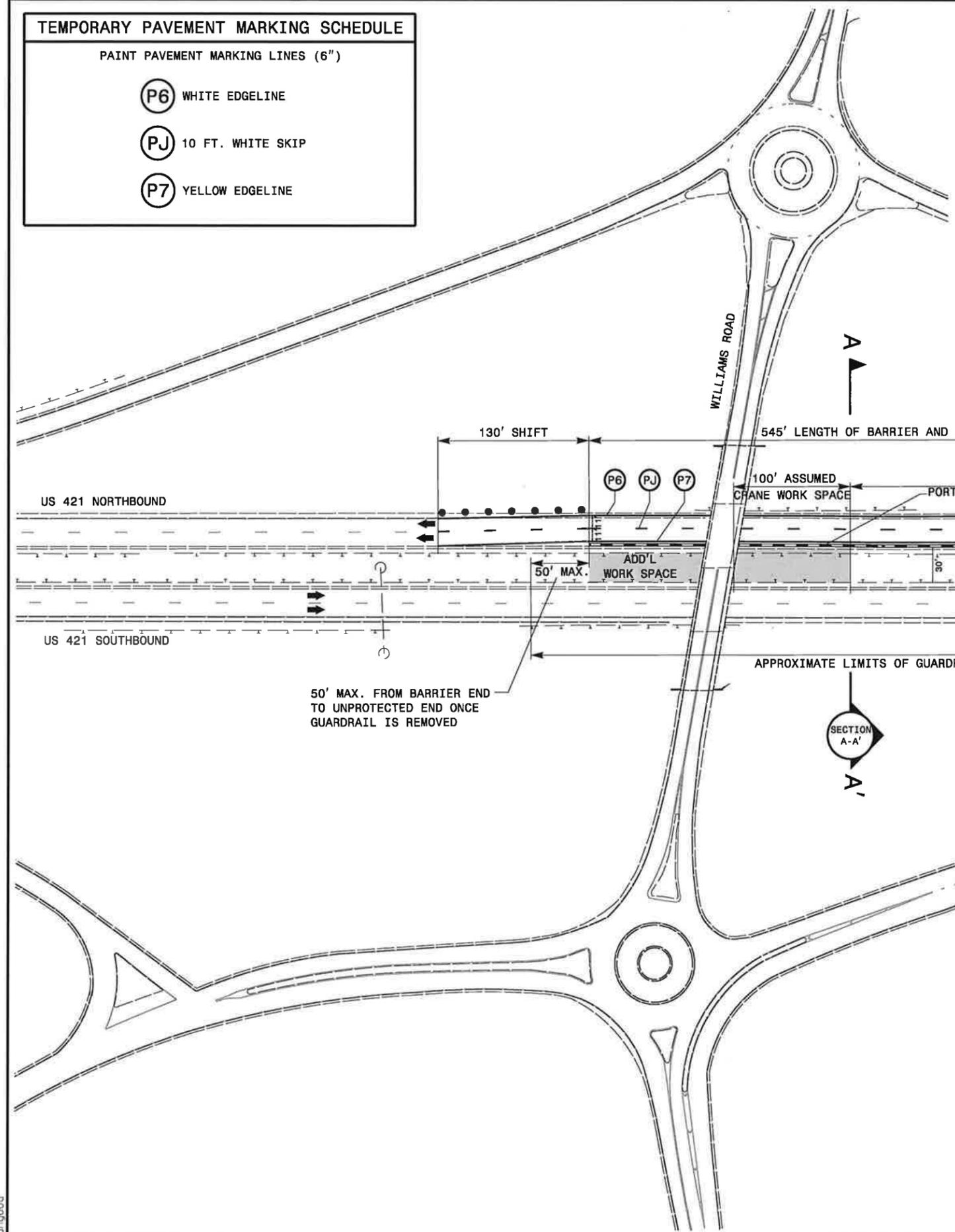
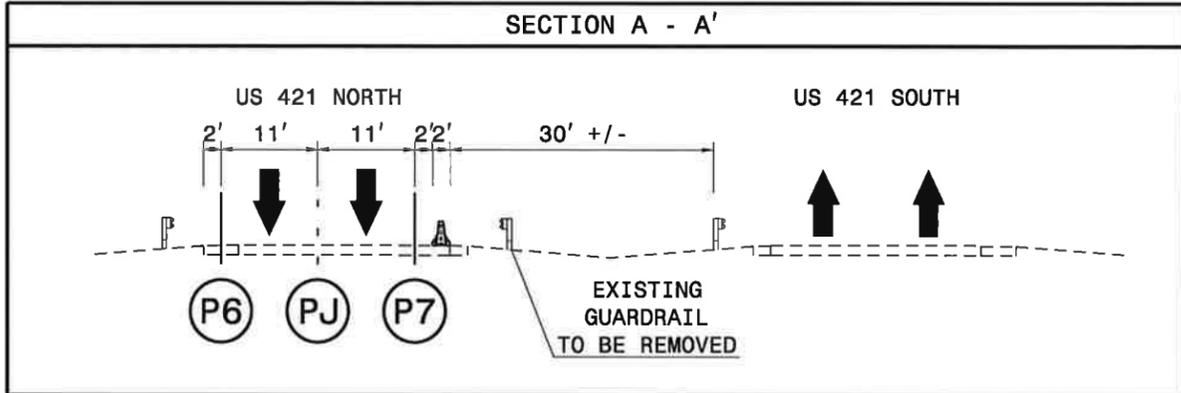
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**TEMPORARY PAVEMENT MARKING SCHEDULE**

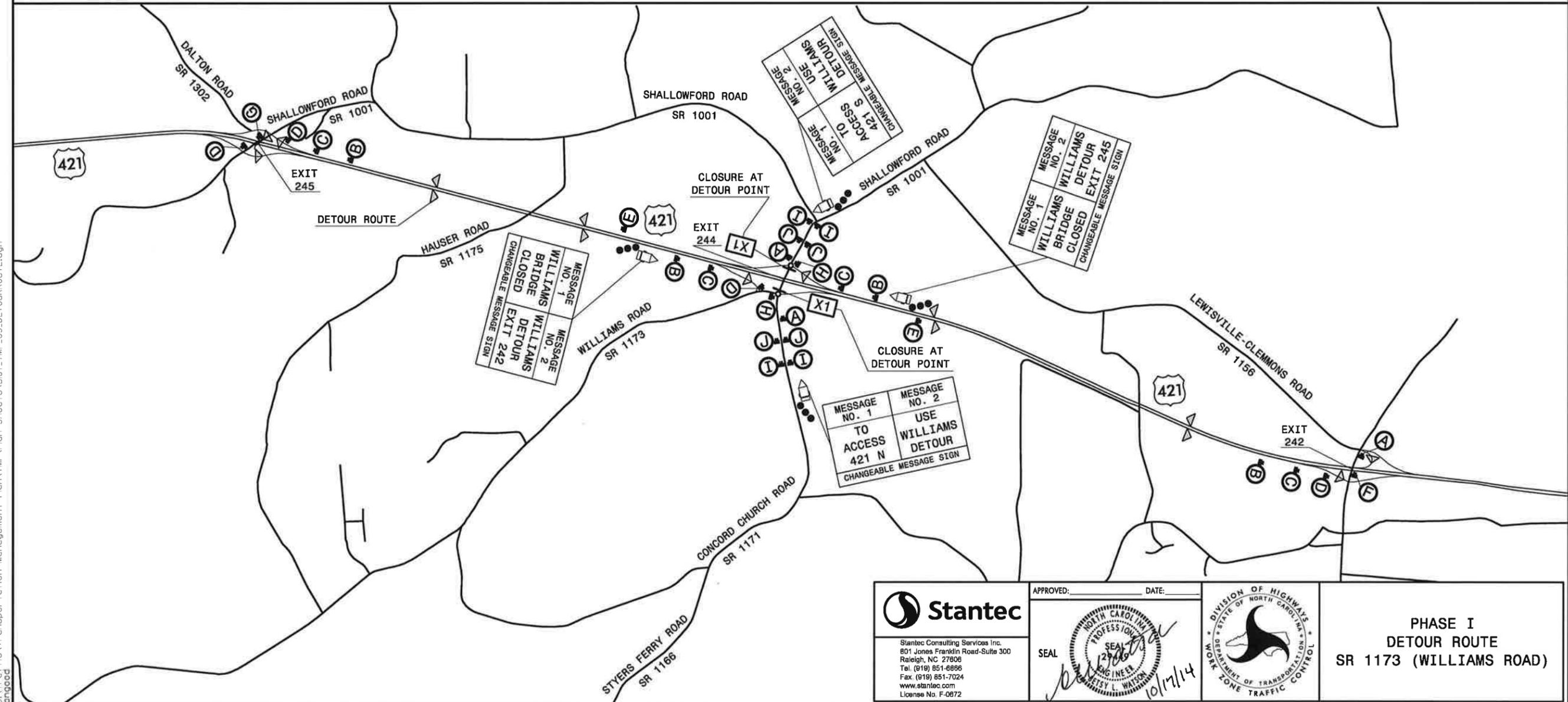
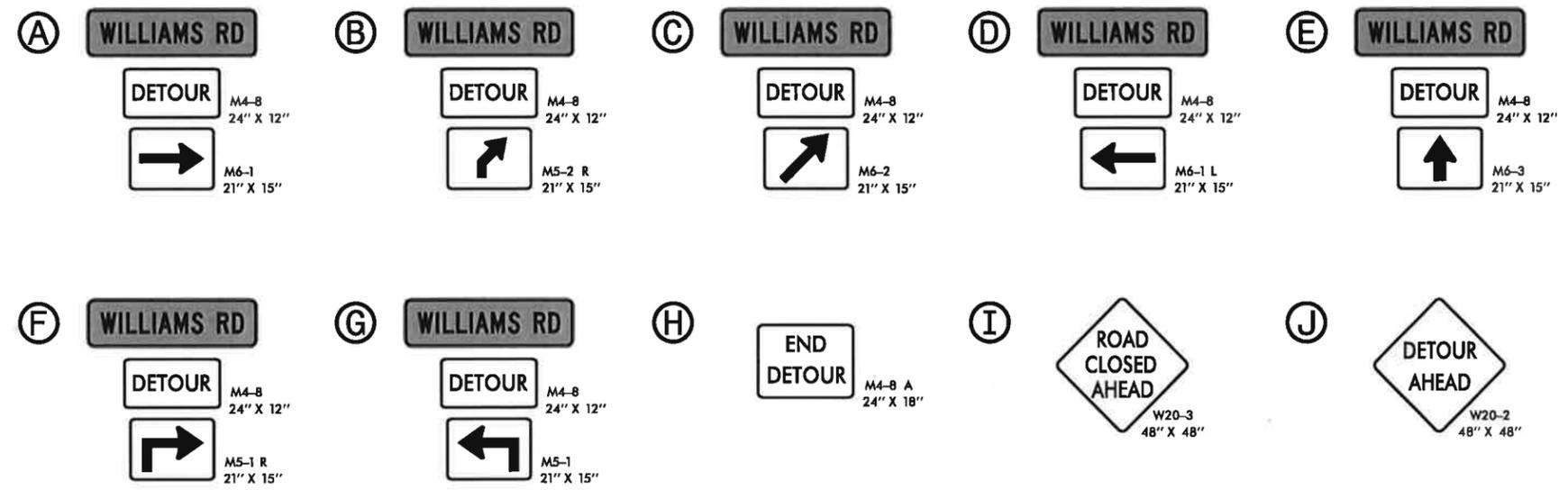
PAINT PAVEMENT MARKING LINES (6")

- (P6)** WHITE EDGELINE
- (PJ)** 10 FT. WHITE SKIP
- (P7)** YELLOW EDGELINE



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	SEAL <p>WESLEY L. WATSON                  10/17/14</p>		



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	SEAL 10/17/14		

SIGN NUMBER: SD-1  
 TYPE: STATIONARY  
 QUANTITY: SEE PLANS

SIGN WIDTH: 42"  
 HEIGHT: 12"  
 TOTAL AREA: 3.5 Sq.Ft.

BORDER TYPE: RECESSED  
 RADII: 1.5"  
 WIDTH: 0.44"  
 RECESS: 0.38"

NO. Z BARS:  
 LENGTH:

BACKG COLOR: Fluorescent Orange  
 COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.080" (2.0MM) ALUMINUM

DESIGN BY: RRH  
 PROJECT ID: WBS 41665.5B

CHECKED BY: BLW  
 DIV: 9

DATE: Oct 09, 2014



BORDER R=1.5"  
 TH=0.44"  
 IN=0.38"

Spacing Factor is 1 unless specified otherwise

USE NOTES

- Legend and border shall be direct applied black non-reflective sheeting.
- Background shall be NC GRADE B Fluorescent Orange retroreflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

	W	I	L	L	I	A	M	S		R	D									Series/Size Text Length	
	3.5	4.5	1.8	3.3	3.2	1.4	3.9	4.2	2.8	3.5	3.7	2.8	3.5								C 2000
																					35

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